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EXAMINER

HEFFINGTON, JOHN M

ART UNIT	PAPER NUMBER
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2179

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09/06/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/785,001

Applicant(s)

JUNG ET AL.

Examiner

John M. Heffington

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 August 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 21 August 2007.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____.

DETAILED ACTION

This action is in response to the original filing of August 09, 2007. Claim 19 has been amended. Claims 1-19 are pending and have been considered below.

Claim Rejections - 35 USC § 101

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claim 17 is rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Claim 17 is drawn to a carrier wave per se (specification, paragraph 0039). A computer data signal embodied in a carrier wave is not a series of steps or acts and this is not a process. A computer data signal embodied in a carrier wave is not a physical article or object and as such is not a machine or manufacture. A computer data signal embodied in a carrier wave is not a combination of substances and therefore not a compilation of matter. Thus, a computer data signal embodied in a carrier wave by itself does not fall within any of the four categories of invention. Therefore, Claim 17 is not statutory.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-4,6, 9-12,14, 17 and 19 are rejected under 35 U.S.C. 102(b) as being anticipated by Yamanaka et al. (US 5,983,247).

Claims 1,9,17: Yamanaka discloses an apparatus, method and computer readable medium that displays browser graphics, comprising:

- a. a browser graphic storage unit, which stores browser graphics of different aspect ratios according to the aspect ratios (column 2, lines 3-5 and lines 7-14; column 34, lines 34-51; figure 33) [conversion information storing unit, display image converting unit];
- b. an initialization file storage unit, which stores an initialization file including predetermined aspect ratio information (column 2, lines 3-5) [conversion information storing unit];
- c. an aspect ratio information extractor, which extracts the aspect ratio information from the initialization file stored in the initialization file storage unit (column 2, lines 7-14) [display image converting unit];
- d. a browser graphic selector, which selects the browser graphic, which corresponds to the aspect ratio extracted by the aspect ratio information extractor, from the browser graphics of different aspect ratios stored in the browser graphic storage unit (column 2, lines 7-14) [display image converting unit];

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e. and a browser graphic display unit, which displays the browser graphic selected by the browser graphic selector(column 2, lines 29-35) [display image element writing unit].

Claims 2,10: Yamanaka discloses the apparatus and method of claims 1 and 9, and further discloses:

- a. a browser unit browsing predetermined interactive contents markup documents as interactive contents to reproduce the interactive contents, (column 8, lines 58-60) [the HTML document will be read by a browser and is displayed on the screen] and
- b. wherein the initialization file includes information regarding a reproduction environment of the interactive contents (column 1, lines 1-2) [screen size storing unit].

Claims 3,11: Yamanaka discloses the apparatus and method of claims 2 and 10, and further discloses a reproducing command receiver that receives a command for reproducing the interactive contents from a user, wherein when the reproducing command is received by the reproducing command receiver, the aspect ratio information extractor extracts the aspect ratio information from the stored initialization file before the interactive contents are reproduced (column 2, lines 7-14) [display image converting unit].

Claims 4,12: Yamanaka discloses the apparatus and method of claims 2 and 10,

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wherein the initialization file is a markup document (column 1, lines 11-15) [This invention relates to a data conversion apparatus used for TV broadcasting systems, and more specifically to a data conversion apparatus for converting HTML (Hypertext Markup Language) documents into information of a format suitable for the TV broadcasting systems.].

Claims 6,14: Yamanaka discloses the apparatus and method of claims 2 and 10, wherein the initialization file includes a default aspect ratio, which is set by a producer of the interactive contents (column 1, lines 19-22, column 2, lines 5-7 [a change has taken place in terms of the screen size, so that a standard screen with a conventional aspect ratio (4:3) and a wide screen with aspect ratio (16:9) are now available][area storing unit for including a plurality of storage areas each of which is suitable for the size of the second display screen].

Claim 19: Yamanaka discloses an interactive digital video disc controlling a reproduction device, the disc comprising:

- a. multimedia data (column 1, lines 60-64) [where the document includes a plurality of control statements, at least a character string, and at least a piece of image information];
- b. interactive contents markup documents related to the multimedia data (column 8, lines 58-60) [the HTML document will be read by the browser and is displayed on the screen]; and

- c. browser graphic aspect ratio information to control browser graphics, having different aspect ratios, of a browser browsing the interactive contents to reproduce the interactive contents (column 1, lines 51-55, column 2, lines 3-5) [conversion information storing unit for storing a plurality pieces of conversion information which respectively corresponds to the plurality of control statements].

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 5 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamanaka et al. (US 5,983,247) in view of Graham (HTML Source Book).

Claims 5,13: Yamanaka discloses the apparatus of claim 4 but does not disclose wherein the markup document includes the aspect ratio information in one of a meta tag form, a newly defined tag form, a newly defined attribute form, or a script form, according to a markup language. Graham discloses the IMG element with WIDTH and HEIGHT attributes (page 195) from which the aspect ration can be calculated. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to use the IMG element in Yamanaka. One would have been motivated to use the IMG in Yamanaka in order to be able to calculate the aspect ration directly from the

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HTML document rather than having to utilize the Y-coordinate judging unit and the X-coordinate judging unit.

5. Claims 7, 15 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamanaka et al. (US 5,983,247) in view of Ellson et al. (US 5,455,902).

Claims 7, 15: Yamanaka discloses the apparatus and method of claims 1 and 9, further comprising:

- a. an initialization file creator, which creates the initialization file including the aspect ratio information received by the aspect ratio information receiver (column 2, lines 3-5) [conversion information storing unit for storing a plurality pieces of conversion information which respectively correspond to the plurality of control statements] and,
- b. wherein the initialization file storage unit stores the initialization file created by the initialization file creator (column 2, lines 3-5) [conversion information storing unit for storing a plurality pieces of conversion information which respectively correspond to the plurality of control statements].

but does not disclose an aspect ratio information receiver, which receives the aspect ratio information from a user. However, Ellson discloses an aspect ratio information receiver, which receives the aspect ratio information from a user (column 7, lines 51-64). Therefore, it would have been obvious to one having ordinary skill in the art at the

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time of the invention to add an aspect ratio information receiver, which receives the aspect ratio information from a user to Yamanaka. One could have been motivated to add an aspect ratio information receiver, which receives the aspect ratio information from a user to Yamanaka to give the user the option of overriding the aspect ratio information derived for the second display.

Claim 18: Yamanaka discloses a method for converting an image from one aspect ratio to another aspect ratio, but does not disclose shapely displaying a browser graphic of a browser by selecting a display aspect ratio of the browser graphic according to a display device type displaying the browser graphic. However, Ellson discloses shapely displaying a browser graphic of a browser by selecting a display aspect ratio of the browser graphic according to a display device type displaying the browser graphic (column 7, lines 51-64). Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention to add shapely displaying a browser graphic of a browser by selecting a display aspect ratio of the browser graphic according to a display device type displaying the browser graphic to Yamanaka. One could have been motivated to add shapely displaying a browser graphic of a browser by selecting a display aspect ratio of the browser graphic according to a display device type displaying the browser graphic to Yamanaka to give the user the option of overriding the aspect ratio information derived for the second display

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6. Claims 8 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamanaka et al. (US 5,983,247) in view of Nolan et al. (US 6,049,316).

Claims 8,16: Yamanaka discloses the apparatus and method of claims 2 and 10, and further discloses:

- a. an initialization file creator, which creates the initialization file including the aspect ratio information received by the aspect ratio information receiver (column 2, lines 3-5) [conversion information storing unit for storing a plurality pieces of conversion information which respectively correspond to the plurality of control statements],
- b. wherein the initialization file storage unit stores the initialization file created by the initialization file creator (column 2, lines 3-5) [conversion information storing unit for storing a plurality pieces of conversion information which respectively correspond to the plurality of control statements],

but does not disclose an aspect ratio information receiver, which receives the aspect ratio information by a plug-and-play method from a display device which will display the interactive contents. However, Nolan discloses but does not disclose an aspect ratio information receiver, which receives the aspect ratio information by a plug-and-play method from a display device which will display the interactive contents (abstract, column 6, lines 45-47). Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention to add but does not disclose an aspect ratio

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information receiver, which receives the aspect ratio information by a plug-and-play method from a display device which will display the interactive contents to Yamanaka. One could have been motivated to add but does not disclose an aspect ratio information receiver, which receives the aspect ratio information by a plug-and-play method from a display device which will display the interactive contents to Yamanaka because it is common in the art to utilize a plug-and-play monitor.

Response to Arguments

7. Applicant's arguments with respect to claim 19 have been considered but are moot in view of the new ground(s) of rejection.

8. Applicant's arguments filed 19 August 2007 have been fully considered but they are not persuasive. With regards to claims 1-4,6, 9-12,14, 17 and 19 Applicant argues that Yamanaka does not disclose storing images of different aspect ratios. However, Yamanaka discloses an "area storing unit for including a plurality of storage areas each of which is suitable for the size of the second display screen." (column 2, lines 5-7) Further, Yamanaka discloses "display image element writing unit for writing the one of the display image elements into the space of the first storage area..." (column 2, lines 19-21). It is clear that Yamanaka converts one image with a first aspect ratio into an image with a second aspect ratio and stores the second image before displaying the second image.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John M. Heffington whose telephone number is (571) 270-1696. The examiner can normally be reached on Mon - Fri 8:00 - 5:30 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Weilun Lo can be reached on (571) 272-4847. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JMH
8/23/07

BA HUYNH
PRIMARY EXAMINER